FIG. 1

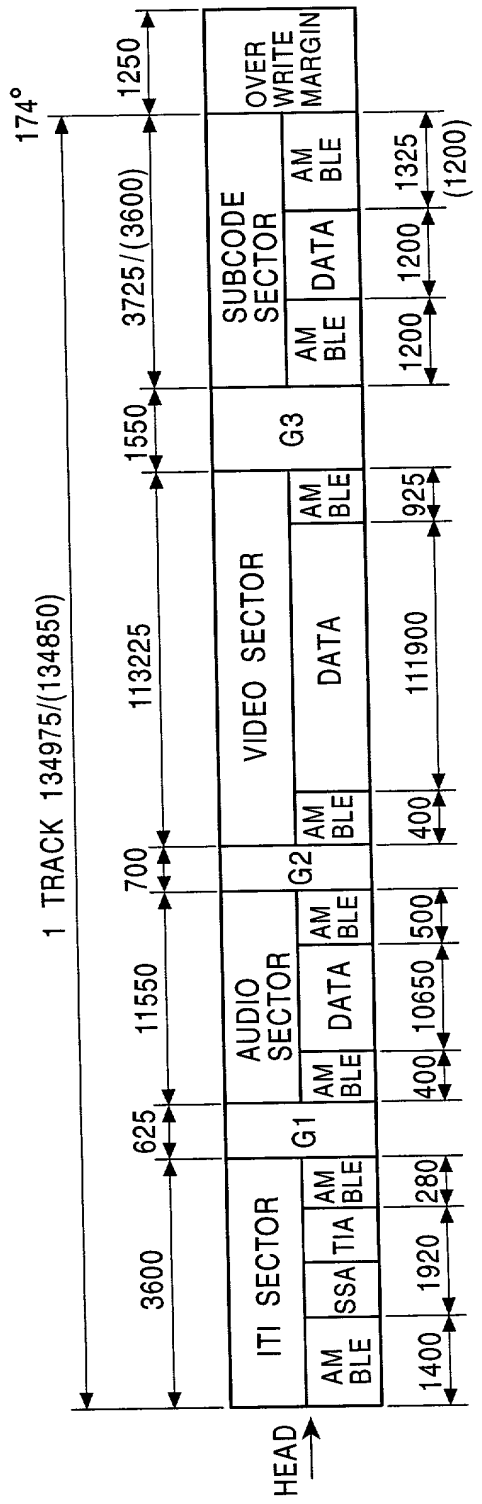

174°
1 TRACK 134975/(134850)
3600
625
11550
700
113225
1550
3725/(3600)
1250
HEAD
ITI SECTOR
AM BLE
SSA
TIA
AM BLE
G1
AUDIO SECTOR
AM BLE
DATA
AM BLE
G2
VIDEO SECTOR
AM BLE
DATA
AM BLE
G3
SUBCODE SECTOR
AM BLE
DATA
AM BLE
OVER WRITE MARGIN
1400
1920
280
400
10650
500
400
111900
925
400
1200
1200
1325
(1200)

FIG. 2

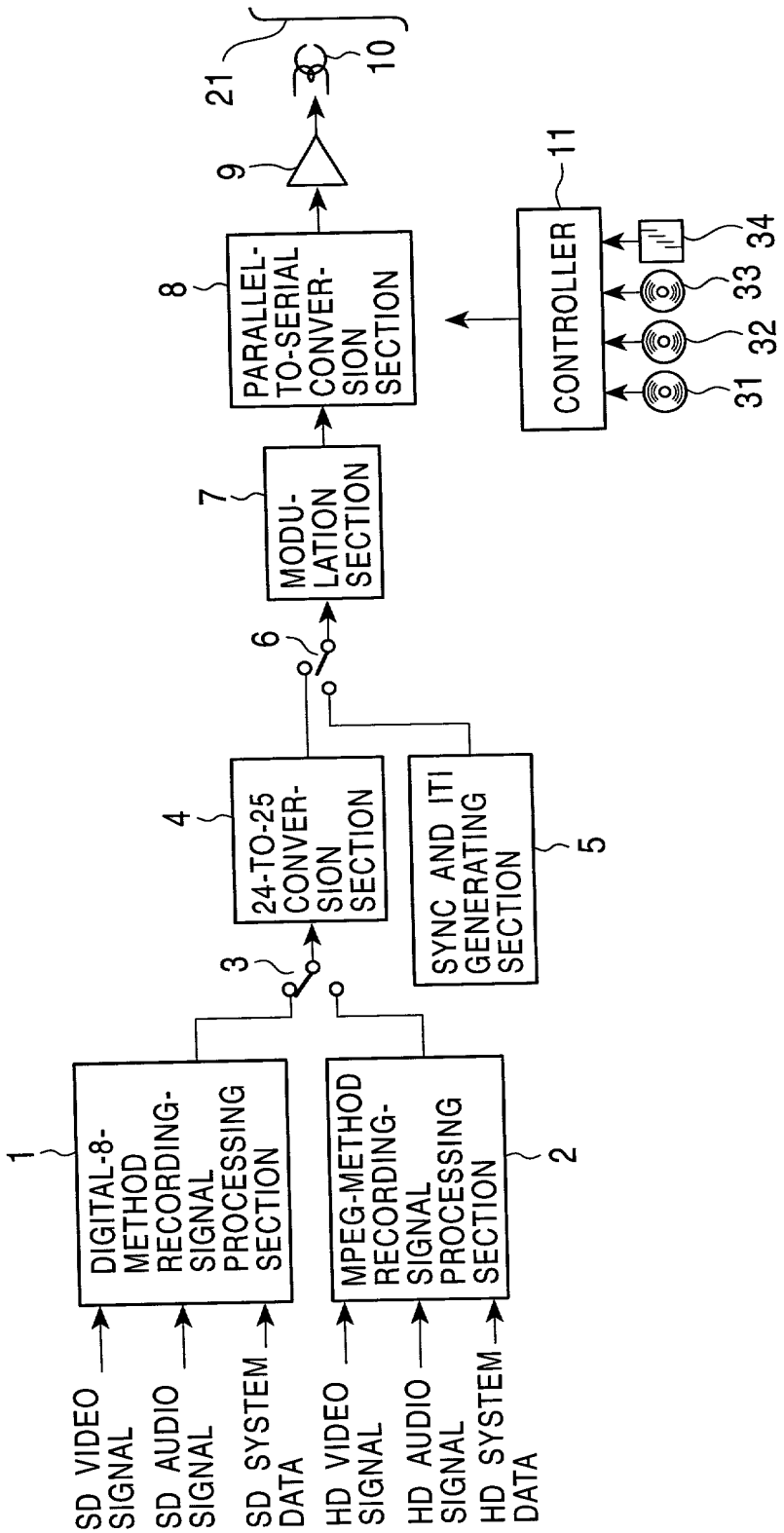

SD VIDEO SIGNAL
SD AUDIO SIGNAL
SD SYSTEM DATA
HD VIDEO SIGNAL
HD AUDIO SIGNAL
HD SYSTEM DATA
1
DIGITAL-8-METHOD RECORDING-SIGNAL PROCESSING SECTION
2
MPEG-METHOD RECORDING-SIGNAL PROCESSING SECTION
3
4
24-TO-25 CONVERSION SECTION
5
SYNC AND ITI GENERATING SECTION
6
7
MODULATION SECTION
8
PARALLEL-TO-SERIAL CONVERSION SECTION
9
10
21
11
CONTROLLER
31
32
33
34

FIG. 3

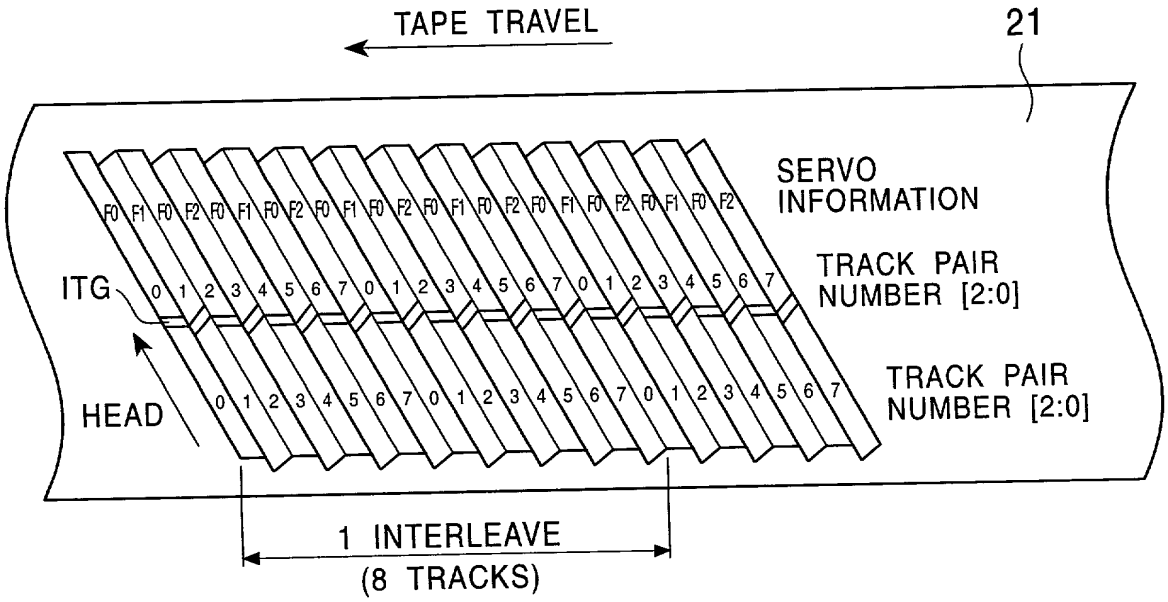

TAPE TRAVEL
21
SERVO INFORMATION
TRACK PAIR NUMBER [2:0]
TRACK PAIR NUMBER [2:0]
ITG
HEAD
1 INTERLEAVE
(8 TRACKS)

FIG. 4

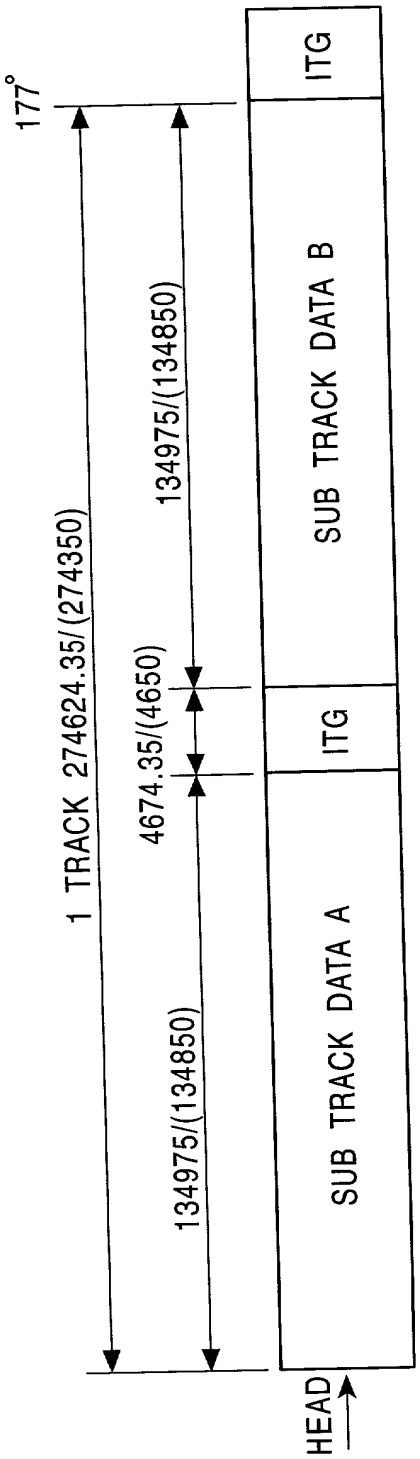

177°
1 TRACK 274624.35/(274350)
134975/(134850)
4674.35/(4650)
134975/(134850)
ITG
SUB TRACK DATA B
ITG
SUB TRACK DATA A
HEAD

FIG. 5

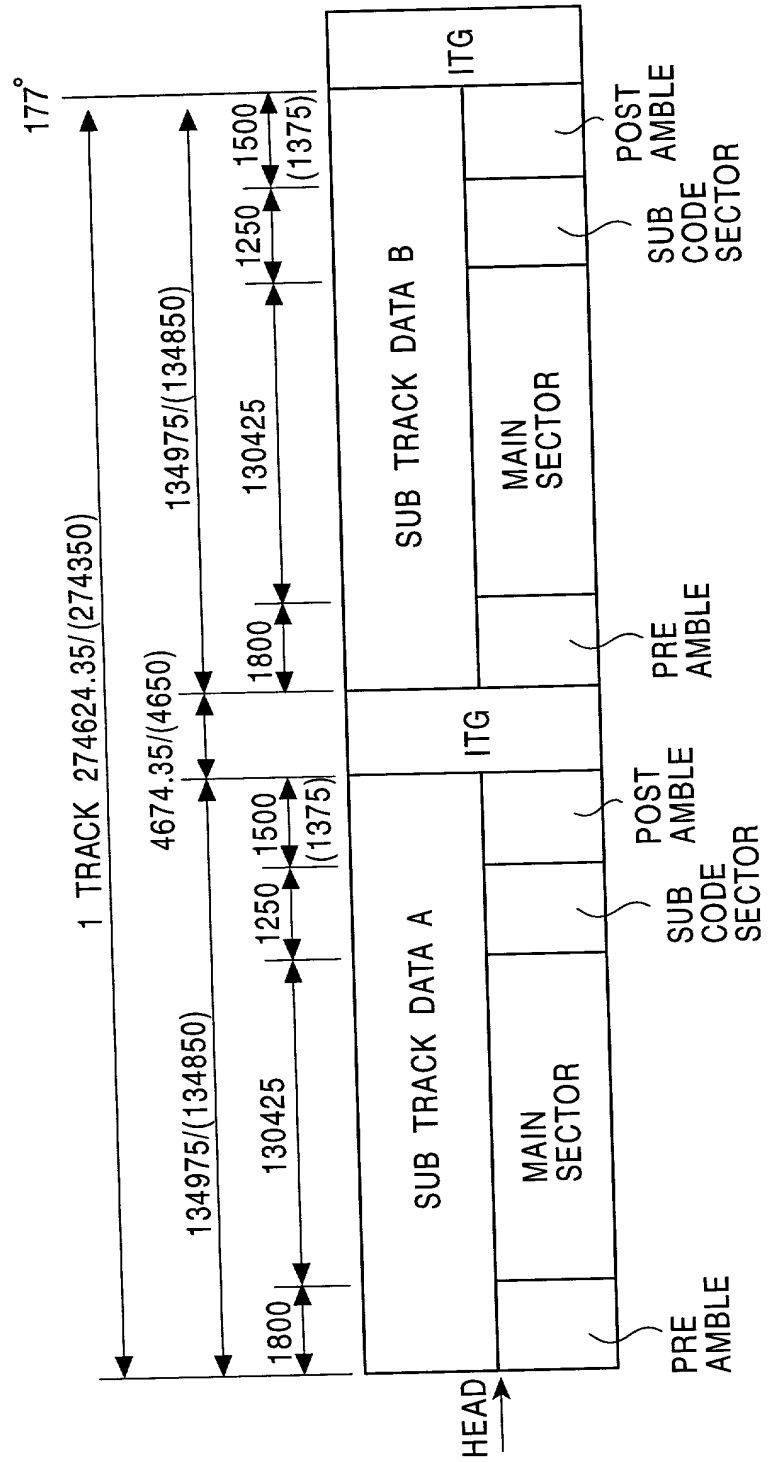

177°
1 TRACK 274624.35/(274350)
4674.35/(4650)
134975/(134850)
130425
1800
1250
1500
(1375)
SUB TRACK DATA A
SUB TRACK DATA B
ITG
MAIN SECTOR
PRE AMBLE
POST AMBLE
SUB CODE SECTOR
HEAD

FIG. 6

RUN PATTERN	CODEWORD MSB LSB
PATTERN A	0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 0 0 1 1 1 0 0 0 1 1
PATTERN B	1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1 1 1 0 0

FIG. 7

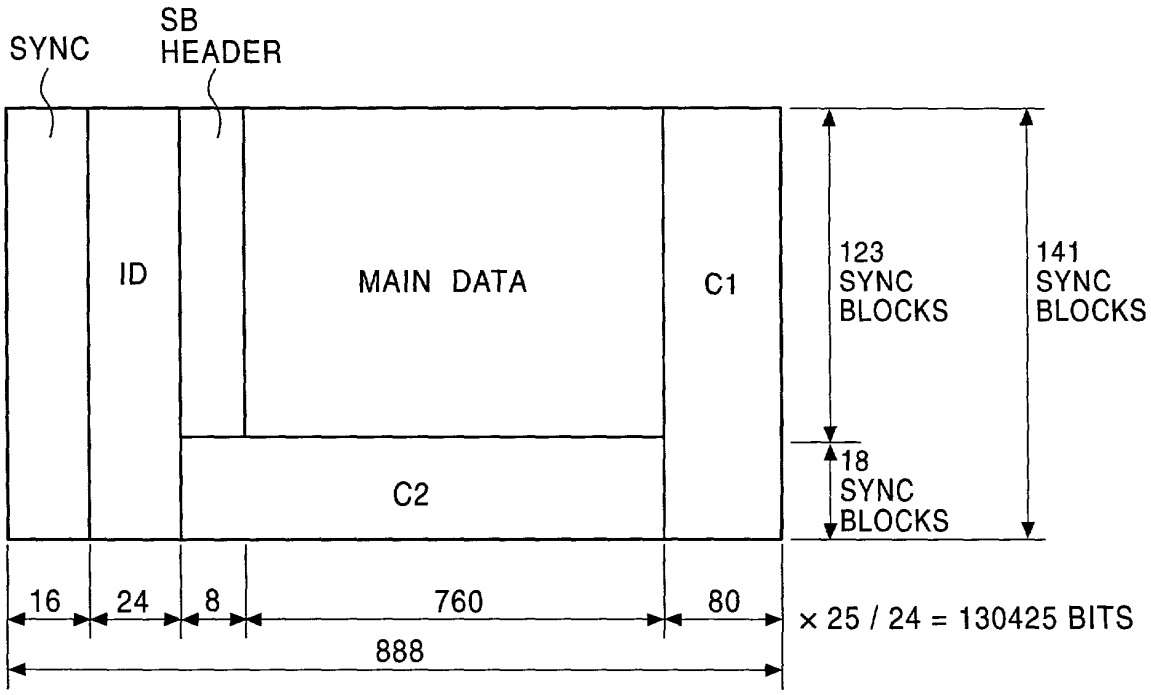


FIG. 8

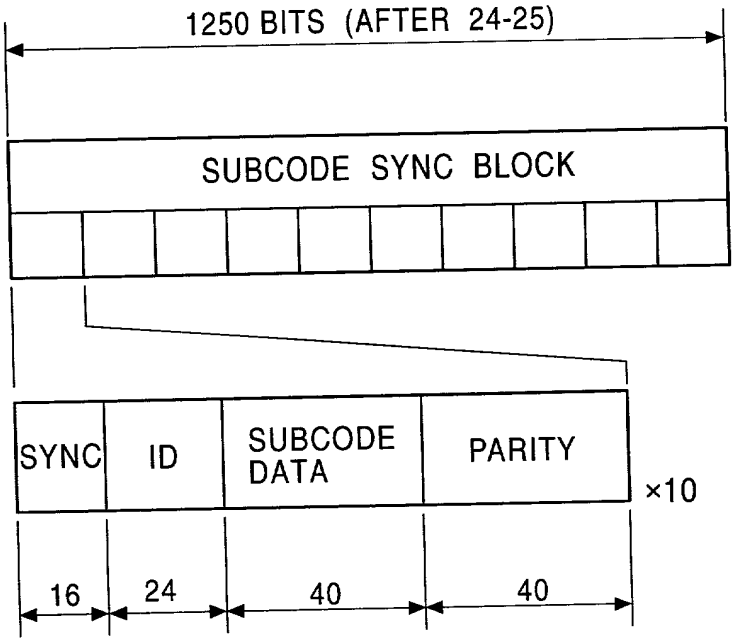

1250 BITS (AFTER 24-25)
SUBCODE SYNC BLOCK
SYNC
ID
SUBCODE DATA
PARITY
×10
16
24
40
40

FIG. 9

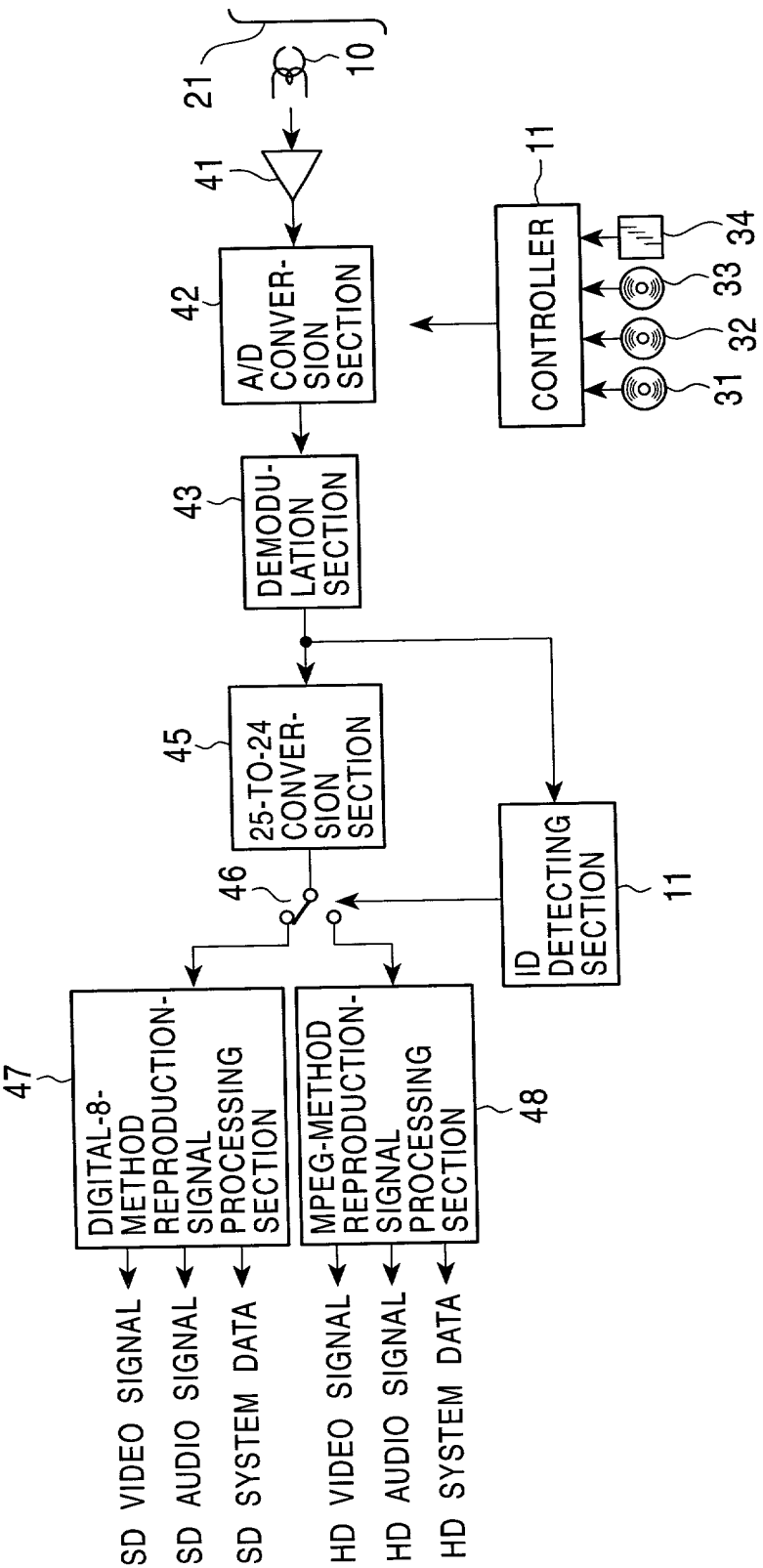

21
10
41
42
A/D CONVER-SION SECTION
43
DEMODU-LATION SECTION
45
25-TO-24 CONVER-SION SECTION
46
47
DIGITAL-8-METHOD REPRODUCTION-SIGNAL PROCESSING SECTION
48
MPEG-METHOD REPRODUCTION-SIGNAL PROCESSING SECTION
ID DETECTING SECTION
11
CONTROLLER
11
31
32
33
34
SD VIDEO SIGNAL
SD AUDIO SIGNAL
SD SYSTEM DATA
HD VIDEO SIGNAL
HD AUDIO SIGNAL
HD SYSTEM DATA

FIG. 10

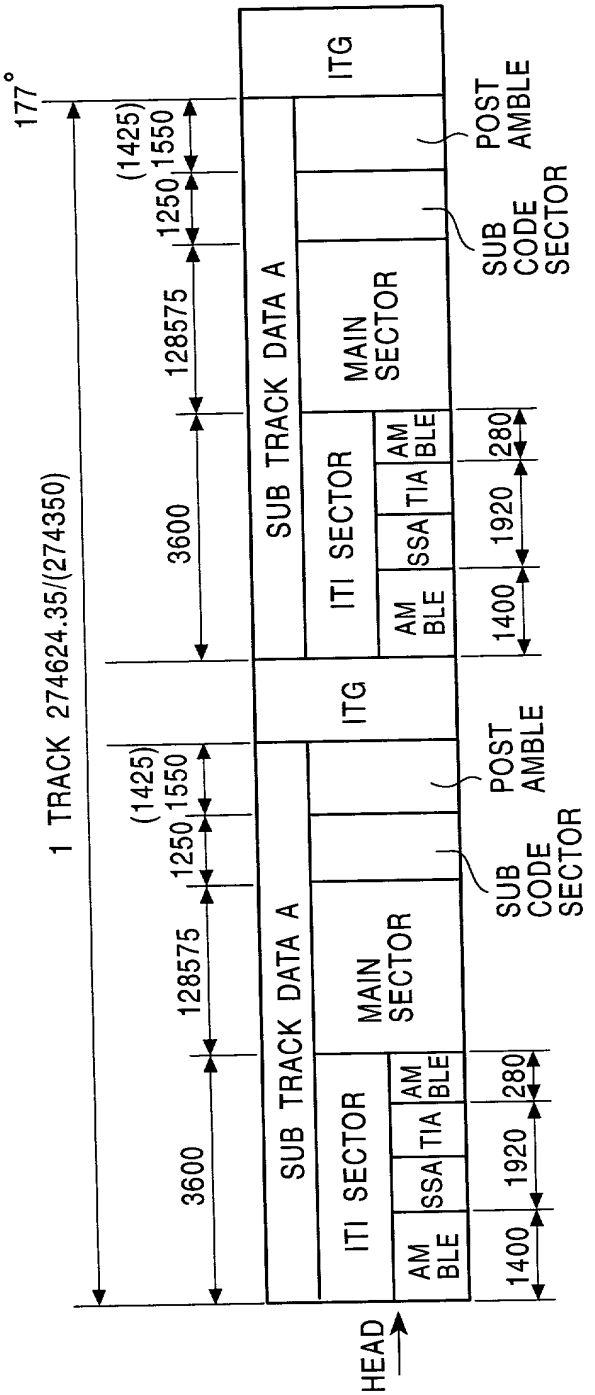

177°
1 TRACK 274624.35/(274350)
HEAD
AM BLE
SSA
TIA
AM BLE
ITI SECTOR
MAIN SECTOR
SUB TRACK DATA A
ITG
POST AMBLE
SUB CODE SECTOR
1400
1920
280
3600
128575
1250
1550
(1425)

FIG. 11

ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB
0	1000101110	40	1000101110	80	1000101110	120	1000101110
1	1000101110	41	1000101110	81	1000101110	121	1000101110
2	1000101110	42	1000101110	82	1000101110	122	1000101110
3	1000101110	43	1000101110	83	1000101110	123	1000101110
4	1000101110	44	1000101110	84	1000101110	124	1000101110
5	1000101110	45	1000101110	85	1000101110	125	1000101110
6	1000101110	46	1000101110	86	1000101110	126	1000101110
7	1000101110	47	1000101110	87	1000101110	127	1000101110
8	1000101110	48	1000101110	88	1000101110	128	1000101110
9	1000101110	49	1000101110	89	1000101110	129	1000101110
10	1000101110	50	1000101110	90	1000101110	130	1000101110
11	1000101110	51	1000101110	91	1000101110	131	1000101110
12	1000101110	52	1000101110	92	1000101110	132	1000101110
13	1000101110	53	1000101110	93	1000101110	133	1000101110
14	1000101110	54	1000101110	94	1000101110	134	1000101110
15	1000101110	55	1000101110	95	1000101110	135	1000101110
16	1000101110	56	1000101110	96	1000101110	136	1000101110
17	1000101110	57	1000101110	97	1000101110	137	1000101110
18	1000101110	58	1000101110	98	1000101110	138	1000101110
19	1000101110	59	1000101110	99	1000101110	139	1000101110
20	1000101110	60	1000101110	100	1000101110		
21	1000101110	61	1000101110	101	1000101110		
22	1000101110	62	1000101110	102	1000101110		
23	1000101110	63	1000101110	103	1000101110		
24	1000101110	64	1000101110	104	1000101110		
25	1000101110	65	1000101110	105	1000101110		
26	1000101110	66	1000101110	106	1000101110		
27	1000101110	67	1000101110	107	1000101110		
28	1000101110	68	1000101110	108	1000101110		
29	1000101110	69	1000101110	109	1000101110		
30	1000101110	70	1000101110	110	1000101110		
31	1000101110	71	1000101110	111	1000101110		
32	1000101110	72	1000101110	112	1000101110		
33	1000101110	73	1000101110	113	1000101110		
34	1000101110	74	1000101110	114	1000101110		
35	1000101110	75	1000101110	115	1000101110		
36	1000101110	76	1000101110	116	1000101110		
37	1000101110	77	1000101110	117	1000101110		
38	1000101110	78	1000101110	118	1000101110		
39	1000101110	79	1000101110	119	1000101110		

FIG. 12

ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB
0	1101110001	40	1000101110	80	0010001110	120	1101110001
1	1101110001	41	0010001110	81	1101110001	121	1000101110
2	1101110001	42	0010001110	82	1101110001	122	0010001110
3	1101110001	43	0010001110	83	1101110001	123	0010001110
4	1000101110	44	0010001110	84	1101110001	124	0010001110
5	0010001110	45	1101110001	85	1000101110	125	0010001110
6	0010001110	46	1101110001	86	0010001110	126	1101110001
7	0010001110	47	1101110001	87	0010001110	127	1101110001
8	0010001110	48	1101110001	88	0010001110	128	1101110001
9	1101110001	49	1000101110	89	0010001110	129	1101110001
10	1101110001	50	0010001110	90	1101110001	130	1000101110
11	1101110001	51	0010001110	91	1101110001	131	0010001110
12	1101110001	52	0010001110	92	1101110001	132	0010001110
13	1000101110	53	0010001110	93	1101110001	133	0010001110
14	0010001110	54	1101110001	94	1000101110	134	0010001110
15	0010001110	55	1101110001	95	0010001110	135	1101110001
16	0010001110	56	1101110001	96	0010001110	136	1101110001
17	0010001110	57	1101110001	97	0010001110	137	1101110001
18	1101110001	58	1000101110	98	0010001110	138	1101110001
19	1101110001	59	0010001110	99	1101110001	139	1000101110
20	1101110001	60	0010001110	100	1101110001		
21	1101110001	61	0010001110	101	1101110001		
22	1000101110	62	0010001110	102	1101110001		
23	0010001110	63	1101110001	103	1000101110		
24	0010001110	64	1101110001	104	0010001110		
25	0010001110	65	1101110001	105	0010001110		
26	0010001110	66	1101110001	106	0010001110		
27	1101110001	67	1000101110	107	0010001110		
28	1101110001	68	0010001110	108	1101110001		
29	1101110001	69	0010001110	109	1101110001		
30	1101110001	70	0010001110	110	1101110001		
31	1000101110	71	0010001110	111	1101110001		
32	0010001110	72	1101110001	112	1000101110		
33	0010001110	73	1101110001	113	0010001110		
34	0010001110	74	1101110001	114	0010001110		
35	0010001110	75	1101110001	115	0010001110		
36	1101110001	76	1000101110	116	0010001110		
37	1101110001	77	0010001110	117	1101110001		
38	1101110001	78	0010001110	118	1101110001		
39	1101110001	79	0010001110	119	1101110001		

FIG. 13

ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB
0	1101110001	40	0010001110	80	1101110001	120	1101110001
1	1101110001	41	0010001110	81	0010001110	121	1101110001
2	1101110001	42	1101110001	82	0010001110	122	1101110001
3	0010001110	43	1101110001	83	0010001110	123	0010001110
4	0010001110	44	1101110001	84	1101110001	124	0010001110
5	0010001110	45	0010001110	85	1101110001	125	0010001110
6	1101110001	46	0010001110	86	1101110001	126	1101110001
7	1101110001	47	0010001110	87	0010001110	127	1101110001
8	1101110001	48	1101110001	88	0010001110	128	1101110001
9	0010001110	49	1101110001	89	0010001110	129	0010001110
10	0010001110	50	1101110001	90	1101110001	130	0010001110
11	0010001110	51	0010001110	91	1101110001	131	0010001110
12	1101110001	52	0010001110	92	1101110001	132	1101110001
13	1101110001	53	0010001110	93	0010001110	133	1101110001
14	1101110001	54	1101110001	94	0010001110	134	1101110001
15	0010001110	55	1101110001	95	0010001110	135	0010001110
16	0010001110	56	1101110001	96	1101110001	136	0010001110
17	0010001110	57	0010001110	97	1101110001	137	0010001110
18	1101110001	58	0010001110	98	1101110001	138	1101110001
19	1101110001	59	0010001110	99	0010001110	139	1101110001
20	1101110001	60	1101110001	100	0010001110		
21	0010001110	61	1101110001	101	0010001110		
22	0010001110	62	1101110001	102	1101110001		
23	0010001110	63	0010001110	103	1101110001		
24	1101110001	64	0010001110	104	1101110001		
25	1101110001	65	0010001110	105	0010001110		
26	1101110001	66	1101110001	106	0010001110		
27	0010001110	67	1101110001	107	0010001110		
28	0010001110	68	1101110001	108	1101110001		
29	0010001110	69	0010001110	109	1101110001		
30	1101110001	70	0010001110	110	1101110001		
31	1101110001	71	0010001110	111	0010001110		
32	1101110001	72	1101110001	112	0010001110		
33	0010001110	73	1101110001	113	0010001110		
34	0010001110	74	1101110001	114	1101110001		
35	0010001110	75	0010001110	115	1101110001		
36	1101110001	76	0010001110	116	1101110001		
37	1101110001	77	0010001110	117	0010001110		
38	1101110001	78	1101110001	118	0010001110		
39	0010001110	79	1101110001	119	0010001110		

FIG. 14

ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB
0	0010011101	40	0101011001	80	0101101001	120	0010011101	160	0110010101
1	0101010101	41	0110100101	81	0010011101	121	0110100101	161	0110100101
2	0101010101	42	0010011101	82	0101100101	122	0101101001	162	0010011101
3	0010011101	43	0101011001	83	0101100101	123	0010011101	163	0110010101
4	0101010101	44	0110010101	84	0010011101	124	0110100101	164	0110010101
5	0101011001	45	0010011101	85	0101100101	125	0101011001	165	0010011101
6	0010011101	46	0101011001	86	0110101001	126	0010011101	166	0110010101
7	0101010101	47	0110011001	87	0010011101	127	0110100101	167	0110011001
8	0101101001	48	0010011101	88	0101100101	128	0101101001	168	0010011101
9	0010011101	49	0101101001	89	0110100101	129	0010011101	169	0110011001
10	0101010101	50	0101010101	90	0010011101	130	0110100101	170	0101010101
11	0101100101	51	0010011101	91	0101100101	131	0101100101	171	0010011101
12	0010011101	52	0101101001	92	0110010101	132	0010011101	172	0110011001
13	0101010101	53	0101011001	93	0010011101	133	0110100101	173	0101011001
14	0110101001	54	0010011101	94	0101100101	134	0110101001	174	0010011101
15	0010011101	55	0101101001	95	0110011001	135	0010011101	175	0110011001
16	0101010101	56	0101101001	96	0010011101	136	0110100101	176	0101101001
17	0110100101	57	0010011101	97	0110101001	137	0110100101	177	0010011101
18	0010011101	58	0101101001	98	0101010101	138	0010011101	178	0110011001
19	0101010101	59	0101100101	99	0010011101	139	0110100101	179	0101100101
20	0110010101	60	0010011101	100	0110011001	140	0110010101	180	0010011101
21	0010011101	61	0101101001	101	0101011001	141	0010011101	181	0110011001
22	0101010101	62	0110101001	102	0010011101	142	0110100101	182	0110101001
23	0110011001	63	0010011101	103	0110101001	143	0110011001		
24	0010011101	64	0101101001	104	0101101001	144	0010011101		
25	0101011001	65	0110100101	105	0010011101	145	0110010101		
26	0101010101	66	0010011101	106	0110101001	146	0101010101		
27	0010011101	67	0101101001	107	0101100101	147	0010011101		
28	0101011001	68	0110010101	108	0010011101	148	0110010101		
29	0101011001	69	0010011101	109	0110101001	149	0101011001		
30	0010011101	70	0101101001	110	0110101001	150	0010011101		
31	0101011001	71	0110011001	111	0010011101	151	0110010101		
32	0101101001	72	0010011101	112	0110101001	152	0101101001		
33	0010011101	73	0101100101	113	0110100101	153	0010011101		
34	0101011001	74	0101010101	114	0010011101	154	0110010101		
35	0101100101	75	0010011101	115	0110101001	155	0101100101		
36	0010011101	76	0101100101	116	0110010101	156	0010011101		
37	0101011001	77	0101011001	117	0010011101	157	0110010101		
38	0110101001	78	0010011101	118	0110101001	158	0110101001		
39	0010011101	79	0101100101	119	0110011001	159	0010011101		

FIG. 15

ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB
0	0111001000	40	0101011011	80	0101101001	120	0111001000	160	0110010111
1	1010101000	41	0110100111	81	0111001000	121	0110100111	161	0110100101
2	1010101000	42	1000110111	82	1010011000	122	0101010111	162	0111001000
3	0111001000	43	0101011011	83	1010011000	123	1000110111	163	1001101000
4	0101010111	44	0110010101	84	0111001000	124	0110100111	164	1001101000
5	0101011011	45	0111001000	85	0101100111	125	0101011001	165	0111001000
6	1000110111	46	1010101000	86	0110101011	126	0111001000	166	0110010111
7	0101010111	47	1001101000	87	1000110111	127	1001011000	167	0110011011
8	0101101001	48	0111001000	88	0101100111	128	1010010100	168	1000110111
9	0111001000	49	0101101011	89	0110100101	129	0111001000	169	0110011011
10	1010101000	50	0101010111	90	0111001000	130	0110100111	170	0101010101
11	1010011000	51	1000110111	91	1010011000	131	0101100111	171	0111001000
12	0111001000	52	0101101011	92	1001101000	132	1000110111	172	1001100100
13	0101010111	53	0101011001	93	0111001000	133	0110011011	173	1010100100
14	0110101011	54	0111001000	94	0101100111	134	0110101001	174	0111001000
15	1000110111	55	1010010100	95	0110011011	135	0111001000	175	0110011011
16	0101010111	56	1010010100	96	1000110111	136	1001011000	176	0101101011
17	0110101001	57	0111001000	97	0110101011	137	1001011000	177	1000110111
18	0111001000	58	0101101011	98	0101010101	138	0111001000	178	0110011011
19	1010101000	59	0101011011	99	0111001000	139	0110100111	179	0101100101
20	1010101000	60	1000110111	100	1001010100	140	0110010111	180	0111001000
21	1001101000	61	0101101011	101	1010100100	141	1000110111	181	1001100100
22	0111001000	62	0110101001	102	0111001000	142	0110100111	182	1001010100
23	0110011011	63	0111001000	103	0110101011	143	0110011001		
24	1000110111	64	1010010100	104	0101101011	144	0111001000		
25	0101011011	65	1001011000	105	1000110111	145	1001101000		
26	0101010101	66	0111001000	106	0110101011	146	1010101000		
27	0111001000	67	0101101011	107	0101100101	147	0111001000		
28	1010101000	68	0110010111	108	0111001000	148	0110010111		
29	1010101000	69	1000110111	109	1001010100	149	0101011011		
30	0111001000	70	0101101011	110	1001010100	150	1000110111		
31	0101011011	71	0110011001	111	0111001000	151	0110010111		
32	0101101011	72	0111001000	112	0110101011	152	0101101001		
33	1000110111	73	1010011000	113	0110100111	153	0111001000		
34	0101011011	74	1010101000	114	1000110111	154	1001101000		
35	0101100101	75	0111001000	115	0110101011	155	1010011000		
36	0111001000	76	0101100111	116	0110010101	156	0111001000		
37	1010100100	77	0101011011	117	0111001000	157	0110010111		
38	1001010100	78	1000110111	118	1001010100	158	0110101011		
39	0111001000	79	0101100111	119	1001100100	159	1000110111		

FIG. 16

ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB
0	1000110111	40	0101011011	80	1010010100	120	1000110111	160	0110010111
1	1010101000	41	0110100111	81	0111001000	121	1001011000	161	0110100111
2	1010101000	42	1000110111	82	0101100111	122	1010101000	162	1000110111
3	0111001000	43	1010100100	83	0101101011	123	0111001000	163	1001101000
4	0101010111	44	1001101000	84	1000110111	124	0110100111	164	1001101000
5	0101011011	45	0111001000	85	1010011000	125	0101011011	165	0111001000
6	1000110111	46	0101011011	86	1001010100	126	1000110111	166	0110010111
7	1010101000	47	0110011011	87	0111001000	127	1001011000	167	0110011011
8	1010010100	48	1000110111	88	0101100111	128	1010010100	168	1000110111
9	0111001000	49	1010010100	89	0110100111	129	0111001000	169	1001100100
10	0101010111	50	1010101000	90	1000110111	130	0110100111	170	1010101000
11	0101100111	51	0111001000	91	1010011000	131	0101100111	171	0111001000
12	1000110111	52	0101101011	92	1001101000	132	1000110111	172	0110011011
13	1010101000	53	0101011011	93	0111001000	133	1001011000	173	0101011011
14	1001010100	54	1000110111	94	0101100111	134	1001010100	174	1000110111
15	0111001000	55	1010010100	95	0110011011	135	0111001000	175	1001100100
16	0101010111	56	1010010100	96	1000110111	136	0110100111	176	1010010100
17	0110100111	57	0111001000	97	1001010100	137	0110100111	177	0111001000
18	1000110111	58	0101101011	98	1010101000	138	1000110111	178	0110011011
19	1010101000	59	0101100111	99	0111001000	139	1001011000	179	0101100111
20	1001101000	60	1000110111	100	0110101011	140	1001101000	180	1000110111
21	0111001000	61	1010010100	101	0101011011	141	0111001000	181	1001100100
22	0101010111	62	1001010100	102	1000110111	142	0110100111	182	1001010100
23	0110011011	63	0111001000	103	1001010100	143	0110011011		
24	1000110111	64	0101101011	104	1010010100	144	1000110111		
25	1010100100	65	0110100111	105	0111001000	145	1001101000		
26	1010101000	66	1000110111	106	0110101011	146	1010101000		
27	0111001000	67	1010010100	107	0101100111	147	0111001000		
28	0101011011	68	1001101000	108	1000110111	148	0110010111		
29	0101011011	69	0111001000	109	1001010100	149	0101011011		
30	1000110111	70	0101101011	110	1001010100	150	1000110111		
31	1010100100	71	0110011011	111	0111001000	151	1001101000		
32	1010010100	72	1000110111	112	0110101011	152	1010010100		
33	0111001000	73	1010011000	113	0110100111	153	0111001000		
34	0101011011	74	1010101000	114	1000110111	154	0110010111		
35	0101100111	75	0111001000	115	1001010100	155	0101100111		
36	1000110111	76	0101100111	116	1001101000	156	1000110111		
37	1010100100	77	0101011011	117	0111001000	157	1001101000		
38	1001010100	78	1000110111	118	0110101011	158	1001010100		
39	0111001000	79	1010011000	119	0110011011	159	0111001000		

FIG. 17

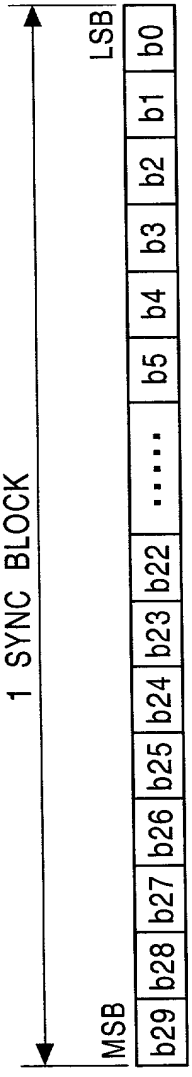


FIG. 18

b12	b13	b14	b15	b16	b17	b22	b23	b24	b25	b26	b27	ID
APT_2	APT_2	APT_1	APT_1	APT_0	APT_0	TP_1	TP_1	TP_0	TP_0	PF_0	PF_1	
1	1	1	1	1	1	1	1	1	1	0	0	FORMAT
OTHERS												RESERVED

FIG. 19

APT_2	APT_1	APT_0	MEANING
0	0	0	CONSUMER DIGITAL VCR
0	0	1	RESERVED
0	1	0	RESERVED
0	1	1	RESERVED
1	0	0	RESERVED
1	0	1	RESERVED
1	1	0	RESERVED
1	1	1	NO INFORMATION

FIG. 20

ORDER OF RECORDING	CODEWORD MSB LSB
0	0010011101
1	0110011001
2	0110010101
3	0010011101
4	0110011001
5	0110010101
6	0010011101
7	0110011001
8	0110010101

FIG. 21

ORDER OF RECORDING	CODEWORD MSB LSB
0	0111001000
1	0110011011
2	0110010111
3	1000110111
4	0110011011
5	0110010101
6	0111001000
7	1001100100
8	1001101000

FIG. 22

ORDER OF RECORDING	CODEWORD MSB LSB
0	0111001000
1	0110011011
2	0110010111
3	1000110111
4	1001100100
5	1001101000
6	0111001000
7	0110011011
8	0110010111

FIG. 23

ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB
0	1000101110	10	1000101110	20	1000101110
1	1000101110	11	1000101110	21	1000101110
2	1000101110	12	1000101110	22	1000101110
3	1000101110	13	1000101110	23	1000101110
4	1000101110	14	1000101110	24	1000101110
5	1000101110	15	1000101110	25	1000101110
6	1000101110	16	1000101110	26	1000101110
7	1000101110	17	1000101110	27	1000101110
8	1000101110	18	1000101110		
9	1000101110	19	1000101110		

FIG. 24

ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB
0	0010001110	10	1101110001	20	1101110001
1	1101110001	11	1101110001	21	1101110001
2	1101110001	12	1101110001	22	1101110001
3	1101110001	13	1101110001	23	1000101110
4	1101110001	14	1000101110	24	0010001110
5	1000101110	15	0010001110	25	0010001110
6	0010001110	16	0010001110	26	0010001110
7	0010001110	17	0010001110	27	0010001110
8	0010001110	18	0010001110		
9	0010001110	19	1101110001		

RECORD RECEIVED

FIG. 25

ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB	ORDER OF RECORDING	CODEWORD MSB LSB
0	1101110001	10	1101110001	20	0010001110
1	0010001110	11	1101110001	21	0010001110
2	0010001110	12	1101110001	22	1101110001
3	0010001110	13	0010001110	23	1101110001
4	1101110001	14	0010001110	24	1101110001
5	1101110001	15	0010001110	25	0010001110
6	1101110001	16	1101110001	26	0010001110
7	0010001110	17	1101110001	27	0010001110
8	0010001110	18	1101110001		
9	0010001110	19	0010001110		

FIG. 26

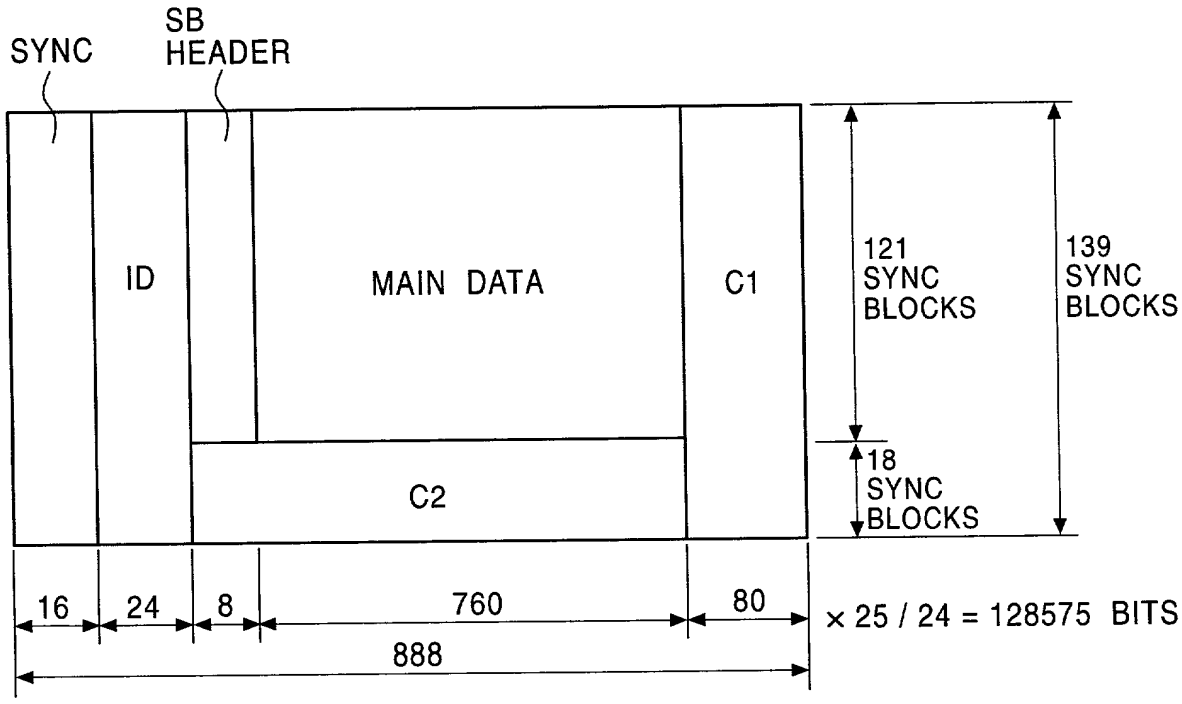

SYNC
SB HEADER
ID
MAIN DATA
C1
C2
121 SYNC BLOCKS
139 SYNC BLOCKS
18 SYNC BLOCKS
16
24
8
760
80
888
× 25 / 24 = 128575 BITS

FIG. 27

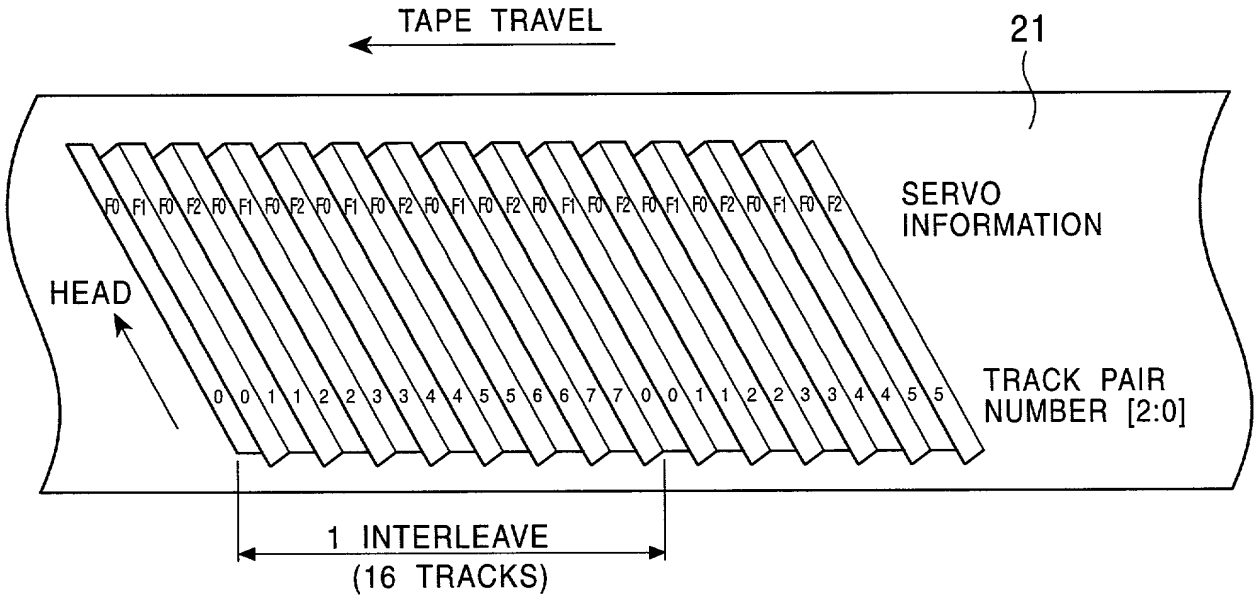

TAPE TRAVEL
21
F0 F1 F0 F2 F0 F1 F0 F2 F0 F1 F0 F2 F0 F1 F0 F2 F0 F1 F0 F2 F0 F1 F0 F2 F0 F1 F0 F2
SERVO INFORMATION
HEAD
0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 0 0 1 1 2 2 3 3 4 4 5 5
TRACK PAIR NUMBER [2:0]
1 INTERLEAVE
(16 TRACKS)

FIG. 28

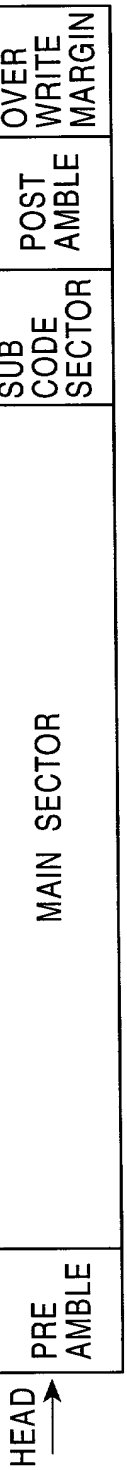

177°
1 TRACK 27462.35/(274350)
269175 (= 888 x 291 x 25/24)
2000
1250
2199.35
(1925)
1250
PRE AMBLE
MAIN SECTOR
SUB CODE SECTOR
POST AMBLE
OVER WRITE MARGIN
HEAD

FIG. 29

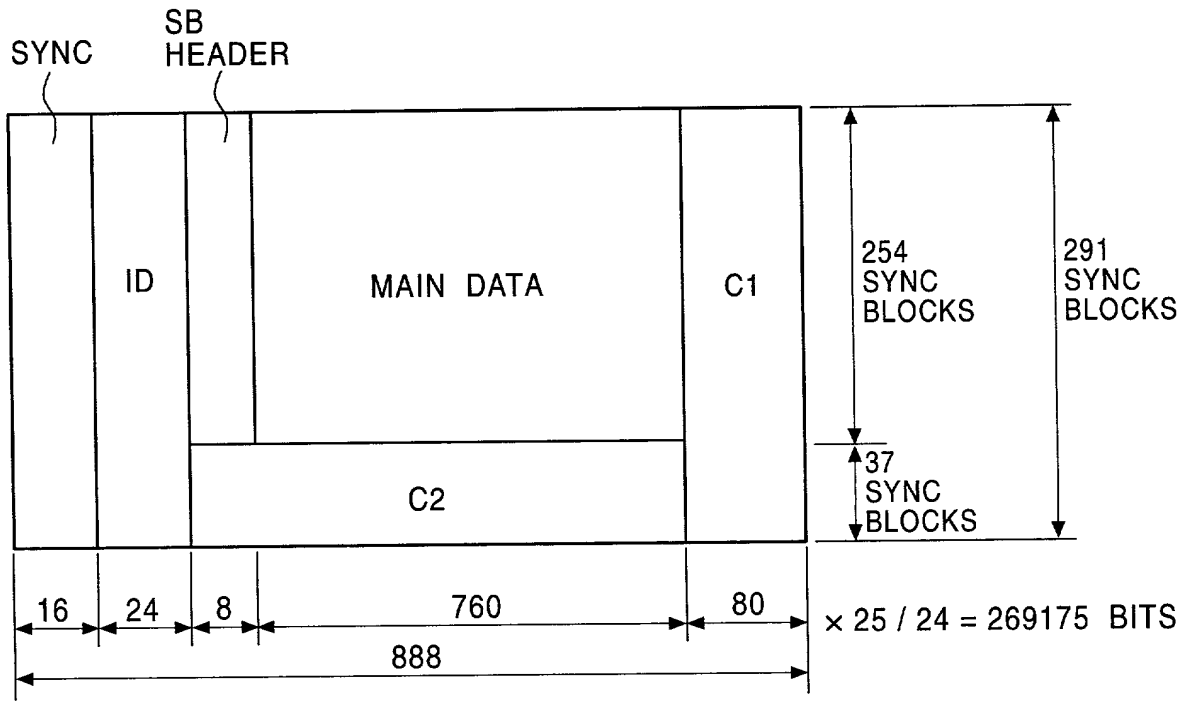

SYNC
SB HEADER
ID
MAIN DATA
C1
C2
254 SYNC BLOCKS
291 SYNC BLOCKS
37 SYNC BLOCKS
16
24
8
760
80
888
× 25 / 24 = 269175 BITS

FIG. 30

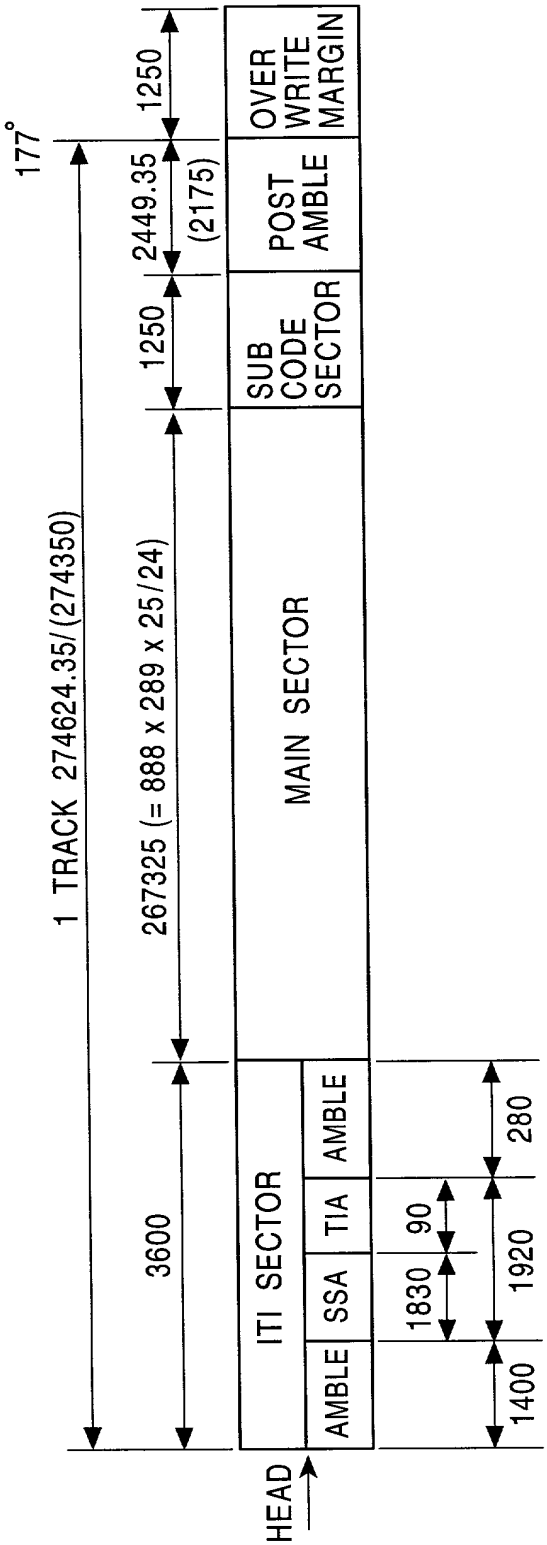

177°
1 TRACK 274624.35/(274350)
267325 (= 888 x 289 x 25/24)
3600
1250
2449.35
(2175)
1250
OVER WRITE MARGIN
POST AMBLE
SUB CODE SECTOR
MAIN SECTOR
ITI SECTOR
AMBLE
SSA
TIA
AMBLE
1830
90
1400
1920
280
HEAD

FIG. 31

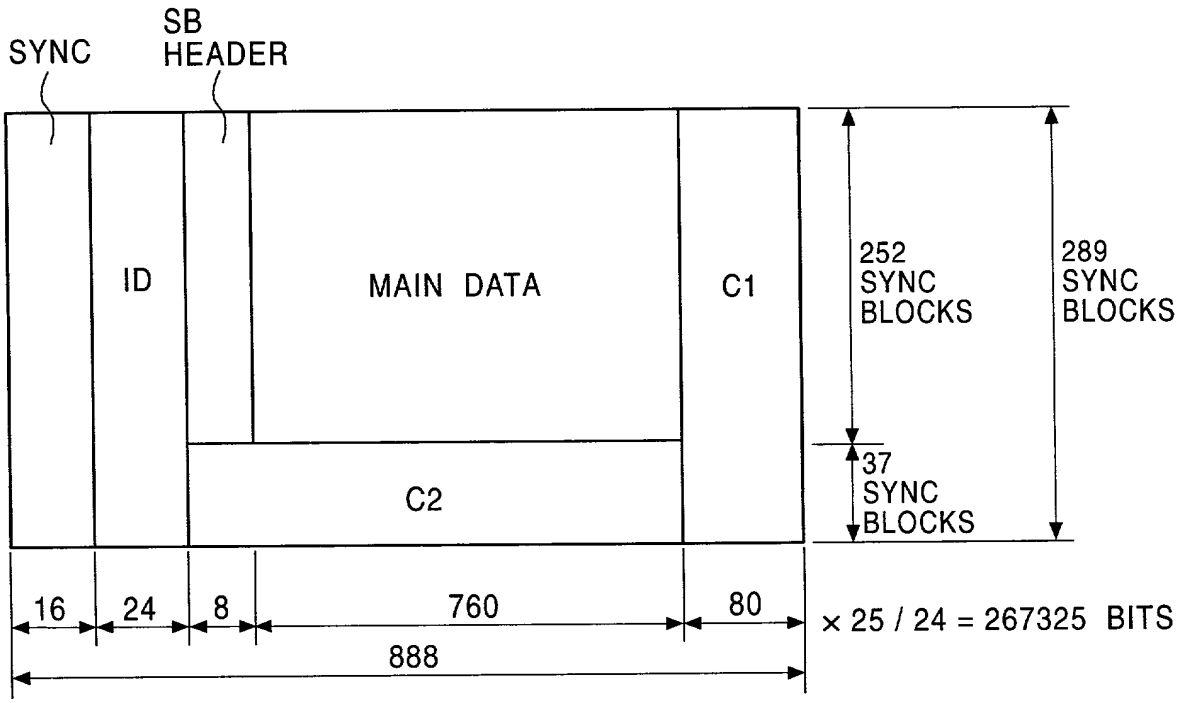

SYNC
SB HEADER
ID
MAIN DATA
C1
C2
252 SYNC BLOCKS
289 SYNC BLOCKS
37 SYNC BLOCKS
16
24
8
760
80
888
× 25 / 24 = 267325 BITS

FIG. 32

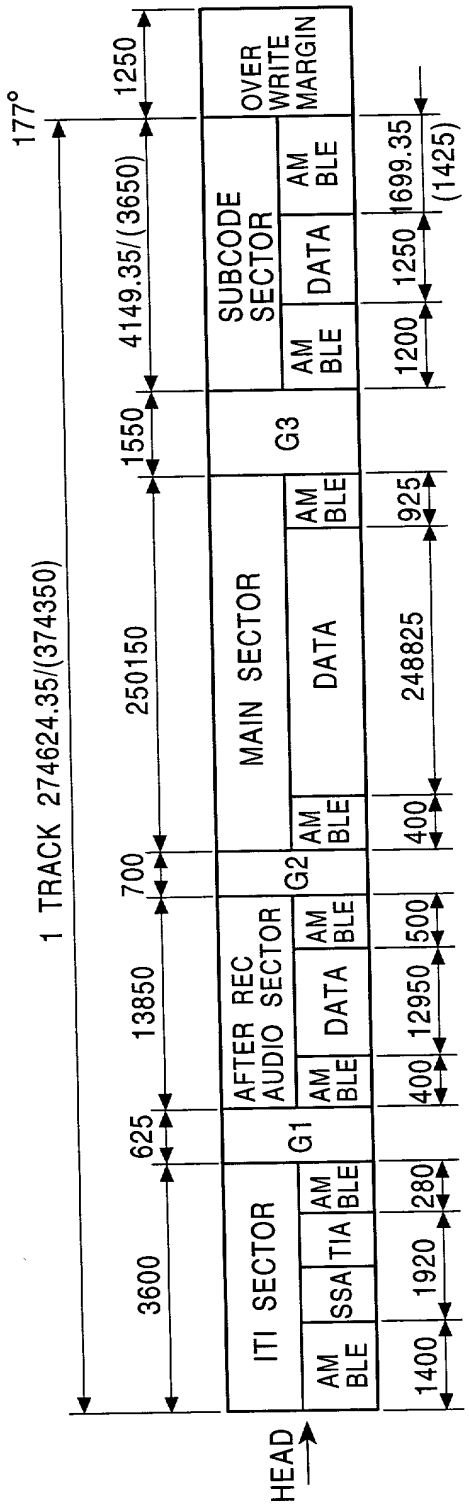

177°
1 TRACK 274624.35/(374350)
HEAD
ITI SECTOR
AM BLE
SSA
TIA
AM BLE
G1
AFTER REC AUDIO SECTOR
AM BLE
DATA
AM BLE
G2
MAIN SECTOR
AM BLE
DATA
AM BLE
G3
SUBCODE SECTOR
AM BLE
DATA
AM BLE
OVER WRITE MARGIN
3600
625
13850
700
250150
1550
4149.35/(3650)
1250
1400
1920
280
400
12950
500
400
248825
925
400
1200
1250
1699.35
(1425)

FIG. 33

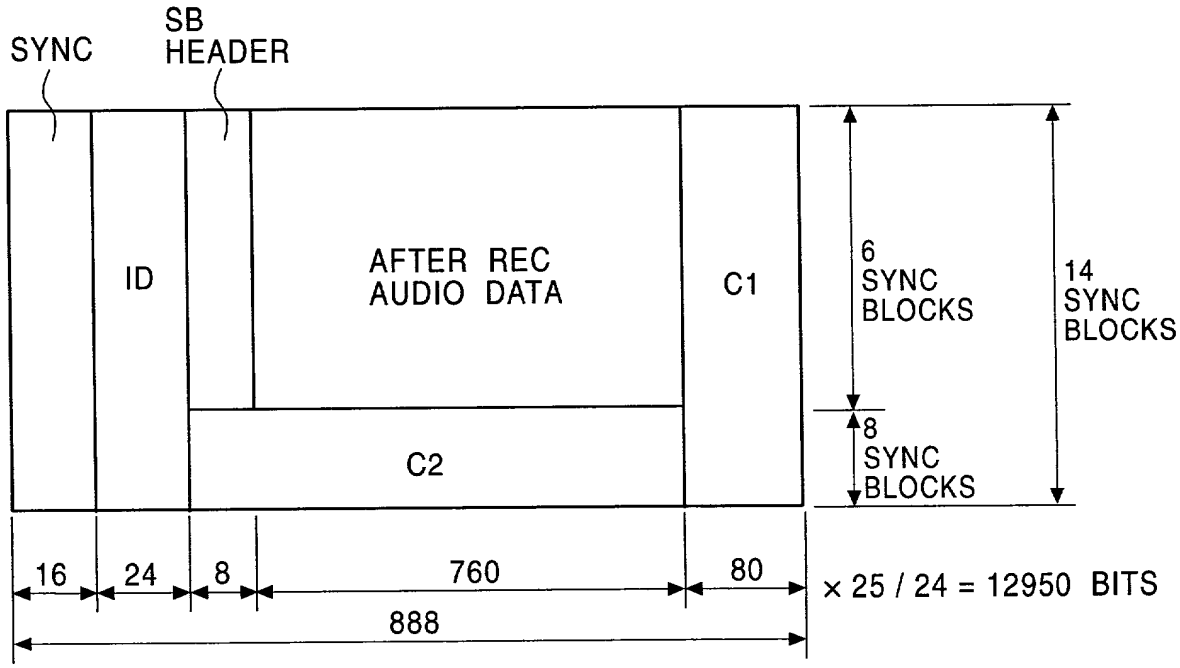
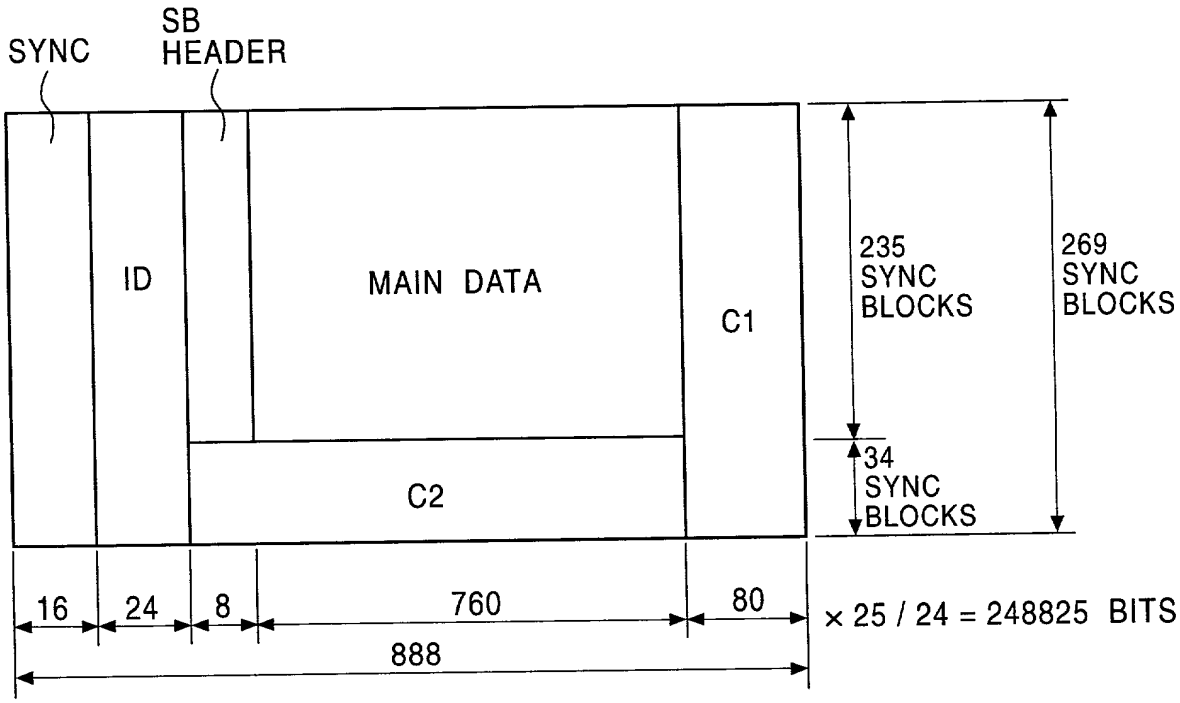

SYNC
SB HEADER
ID
AFTER REC AUDIO DATA
C1
C2
6 SYNC BLOCKS
8 SYNC BLOCKS
14 SYNC BLOCKS
16
24
8
760
80
888
× 25 / 24 = 12950 BITS

FIG. 34


SYNC
SB HEADER
ID
MAIN DATA
C1
C2
235 SYNC BLOCKS
269 SYNC BLOCKS
34 SYNC BLOCKS
16
24
8
760
80
888
× 25 / 24 = 248825 BITS